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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/777,224	02/13/2004	Harald Hirschmann	MERCK-2839	2499	
23599 7	590 06/28/2005		EXAMINER		
MILLEN, WHITE, ZELANO & BRANIGAN, P.C.			WU, SHE	WU, SHEAN CHIU	
2200 CLAREN	IDON BLVD.				
SUITE 1400			ART UNIT	PAPER NUMBER	
ARLINGTON,	VA 22201		1756	· · · · · · ·	

DATE MAILED: 06/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Ly					
····		Application No.	Applicant(s)				
		10/777,224	HECKMEIER ET	AL			
	Office Action Summary	Examiner	Art Unit				
		Shean C. Wu	1756				
Period fo	The MAILING DATE of this communication apport Reply	oears on the cover sheet with the c	orrespondence ad	dress			
THE - Exte after - If the - If no	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a repl period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailine depatent term adjustment. See 37 CFR 1.704(b).	I36(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed s will be considered timely the mailing date of this or D (35 U.S.C. § 133).	y. ommunication.			
Status							
1)🖾	Responsive to communication(s) filed on 12 J	<i>uly 2004</i> .		•			
2a)[_	This action is FINAL . 2b)⊠ This	s action is non-final.					
3)□	Since this application is in condition for allowa	nce except for formal matters, pro	secution as to the	e merits is			
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠	☑ Claim(s) <u>1-14</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)[Claim(s) is/are allowed.						
6)⊠	☑ Claim(s) <u>1-3,5,6 and 8-14</u> is/are rejected.						
· ·	☑ Claim(s) <u>4 and 7</u> is/are objected to.						
8)□	8) Claim(s) are subject to restriction and/or election requirement.						
Applicati	ion Papers						
9)☐ The specification is objected to by the Examiner.							
10)[10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ι	under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)□ All b)□ Some * c)⊠ None of: 1.⊠ Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	t(s)						
	e of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) D Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ite	. (50)			
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	5) Notice of Informal P 6) Other:	atent Application (PTC	J-152)			
		-, <u>-</u>					

Application/Control Number: 10/777,224 Page 2

Art Unit: 1756

DETAILED ACTION

Claim Objections

1. Claims 4-11 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim cannot depend from any other multiple dependent claim. See MPEP § 608.01(n).

Claim Rejections - 35 USC § 112

2. Claim 12 provides for the use of the liquid-crystalline medium, but, since the claim does not set forth any steps involved in the method/process, it is unclear what method/process applicant is intending to encompass. A claim is indefinite where it merely recites a use without any active, positive steps delimiting how this use is actually practiced.

Claim 12 is rejected under 35 U.S.C. 101 because the claimed recitation of a use, without setting forth any steps involved in the process, results in an improper definition of a process, i.e., results in a claim which is not a proper process claim under 35 U.S.C. 101. See for example *Ex parte Dunki*, 153 USPQ 678 (Bd.App. 1967) and *Clinical Products, Ltd.* v. *Brenner*, 255 F. Supp. 131, 149 USPQ 475 (D.D.C. 1966).

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

Application/Control Number: 10/777,224

Art Unit: 1756

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-3, 5-6, 8-11 and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Heckmeier et al. (US 20030134056).

The reference discloses a liquid-crystalline medium based on a mixture of polar compounds with positive dielectric anisotropy, which liquid-crystalline medium contains one or more alkenyl compounds of the formula (I) and one or more compounds of the formula (IA). The reference medium is useful for TN or STN display device. The reference compounds (ME2.NF, ME3N.F, ME4N.F, PCH-3N.F.F, CC-5-V, CC-3-V1, CCP-V-1, CCP-V2-1, PTP-201, CCQU-2-F and CCQU-3-F) in Example 75 read on the present formulae (A, B, IV and T2a). Therefore, the reference anticipates the claimed invention.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Heckmeier et al. (US 20030134056).

The reference differs from the claim in that the claim has more specific % ranges for the components. The present TN or STN display is known in the art, it would have

Application/Control Number: 10/777,224

Art Unit: 1756

Page 4

been obvious to those skilled in the art to adjust the percentage of the reference

compounds to arrive at the claimed invention because the present compounds are

disclosed and suggested by the reference, which are useful and advantage to obtain better

liquid crystal properties.

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Shean C. Wu whose telephone number is 571-272-1393. The

examiner can normally be reached on 9:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Mark Huff can be reached on 571-272-1385. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Shean C Wu

Primary Examiner

Art Unit 1756

scw